



# Federal Emergency Management Agency

Washington, D.C. 20472

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:  
Case No.: 01-09-066P

The Honorable Ray Masayko  
Mayor, City of Carson City  
201 North Carson Street, Suite 2  
Carson City, NV 89701

Community: City of Carson City, NV  
Community No.: 320001  
FIRM Panel Affected: 0040 B  
FBFM Panel Affected: 0040  
Effective Date of **NOV 29 2001**  
This Revision:

102-D-A

Dear Mayor Masayko:

This responds to a request that the Federal Emergency Management Agency (FEMA) revise the effective Flood Insurance Rate Map (FIRM), Flood Boundary and Floodway Map (FBFM), and Flood Insurance Study (FIS) report for your community in accordance with Part 65 of the National Flood Insurance Program (NFIP) regulations. In a letter dated June 8, 2001, Mr. James P. Haddan, P.E., Owner, Haddan Engineering, requested that FEMA revise the FIRM, FBFM, and FIS report to show the effects of a revised hydrologic analysis; optimization of the effective regulatory floodway; and updated topographic information from approximately 3,800 feet downstream to approximately 2,300 feet downstream of Hot Springs Road along the profile baseline for Goni Canyon Creek. The revised hydrologic analysis was obtained from data used to support Conditional Letters of Map Revision dated December 23, 1998 (Case Nos. 98-09-047R and 98-09-300R).

All data required to complete our review of this request were submitted with letters from Mr. John P. Givlin, P.E., C.F.M., Floodplain Manager, Development Engineering Services, City of Carson City, and Mr. Haddan. Because this Letter of Map Revision (LOMR) is based on flood hazard information meant to improve upon that shown on the flood map or within the flood study, and does not partially or wholly incorporate manmade modifications within the Special Flood Hazard Area (SFHA), fees were not assessed for the review. The SFHA is the area that would be inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood).

We have completed our review of the submitted data and the flood data shown on the effective FIRM and FBFM and in the effective FIS report. We have revised the FIRM, FBFM, and FIS report to modify the elevations and floodplain and floodway boundary delineations of the base flood from approximately 3,800 feet downstream to approximately 2,300 feet downstream of Hot Springs Road along the profile baseline for Goni Canyon Creek. As a result of the modifications, the Base Flood Elevations (BFEs) for Goni Canyon Creek and the widths of the SFHA and the regulatory floodway decreased. The modifications are shown on the enclosed annotated copies of FIRM Panel 0040 B, FBFM Panel 0040, Profile Panel 24P, and affected portions of the Summary of Discharges Table and Floodway Data Table. This LOMR hereby revises the above-referenced panels of the effective FIRM and FBFM, both dated March 14, 1986, and the affected portions of the FIS report dated October 16, 1996.

The modifications are effective as of the date shown above. The map panels as listed above and as modified by this letter will be used for all flood insurance policies and renewals issued for your community.

The following table is a partial listing of existing and modified BFEs:

Location	Existing BFE (feet)*	Modified BFE (feet)*
Approximately 3,300 feet downstream of Hot Springs Road	4,657	4,656
Approximately 2,900 feet downstream of Hot Springs Road	4,661	4,659
Approximately 2,300 feet downstream of Hot Springs Road	4,665	4,664

\*Referenced to the National Geodetic Vertical Datum, rounded to the nearest whole foot

Public notification of the modified BFEs will be given in the *Nevada Appeal* on or about December 21 and December 28, 2001. A copy of this notification is enclosed. In addition, a notice of changes will be published in the *Federal Register*. Within 90 days of the second publication in the *Nevada Appeal*, any interested party may request that FEMA reconsider the determination made by this LOMR. Any request for reconsideration must be based on scientific or technical data. All interested parties are on notice that, until the 90-day period elapses, the determination to modify the BFEs made by this LOMR may itself be modified.

Because this LOMR will not be printed and distributed to primary users, such as local insurance agents and mortgage lenders, your community will serve as a repository for these new data. We encourage you to disseminate the information reflected by this LOMR throughout the community, so that interested persons, such as property owners, local insurance agents, and mortgage lenders, may benefit from the information. We also encourage you to prepare a related article for publication in your community's local newspaper. This article should describe the assistance that officials of your community will give to interested persons by providing these data and interpreting the NFIP maps.

We will not physically revise and republish the FIRM, FBFM, and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM and FBFM panels and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

The floodway is provided to your community as a tool to regulate floodplain development. Therefore, the floodway modifications described in this LOMR, while acceptable to FEMA, must also be acceptable to your community and adopted by appropriate community action, as specified in Paragraph 60.3(d) of the NFIP regulations.

This LOMR is based on minimum floodplain management criteria established under the NFIP. Your community is responsible for approving all floodplain development and for ensuring all necessary permits required by Federal or State law have been received. State, county, and community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction in the SFHA. If the State, county, or community has adopted more restrictive or comprehensive floodplain management criteria, these criteria take precedence over the minimum NFIP criteria.

This determination has been made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and is in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria are the minimum requirements and do not supersede any State or local requirements of a more stringent nature. This includes adoption of the effective FIRM, FBFM, and FIS report to which the regulations apply and the modifications described in this LOMR.

If you have any questions regarding floodplain management regulations for your community or the NFIP in general, please contact the Consultation Coordination Officer (CCO) for your community. Information on the CCO for your community may be obtained by calling the Chief, Community Mitigation Programs Branch, Mitigation Division of FEMA in San Francisco, California, at (415) 923-7184. If you have any questions regarding this LOMR, please call our Map Assistance Center, toll free, at 1-877-FEMA MAP (1-877-336-2627).

Sincerely,



Max H. Yuan, P.E., Project Engineer  
Hazards Study Branch  
Federal Insurance and  
Mitigation Administration

For: Matthew B. Miller, P.E., Chief  
Hazards Study Branch  
Federal Insurance and  
Mitigation Administration

Enclosures

cc: Mr. John P. Givlin, P.E., C.F.M.  
Floodplain Manager  
Development Engineering Services  
City of Carson City

Mr. James P. Haddan, P.E.  
Owner  
Haddan Engineering

## CHANGES ARE MADE IN DETERMINATIONS OF BASE FLOOD ELEVATIONS FOR THE CITY OF CARSON CITY, NEVADA, UNDER THE NATIONAL FLOOD INSURANCE PROGRAM

On March 4, 1986, the Federal Emergency Management Agency identified Special Flood Hazard Areas (SFHAs) in the City of Carson City, Nevada, through issuance of a Flood Insurance Rate Map (FIRM). The Federal Insurance and Mitigation Administration has determined that modification of the elevations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) for certain locations in this community is appropriate. The modified Base Flood Elevations (BFEs) revise the FIRM for the community.

The changes are being made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65.

A hydraulic analysis was performed to incorporate a revised hydrologic analysis; optimization of the effective regulatory floodway; and updated topographic information from approximately 3,800 feet downstream to approximately 2,300 feet downstream of Hot Springs Road along the profile baseline for Goni Canyon Creek. This has resulted in a revised delineation of the regulatory floodway, a decrease in SFHA width, and decreased BFEs for Goni Canyon Creek. The table below indicates existing and modified BFEs for selected locations along the affected lengths of the flooding source(s) cited above.

Location	Existing BFE (feet)*	Modified BFE (feet)*
Approximately 3,300 feet downstream of Hot Springs Road	4,657	4,656
Approximately 2,900 feet downstream of Hot Springs Road	4,661	4,659
Approximately 2,300 feet downstream of Hot Springs Road	4,665	4,664

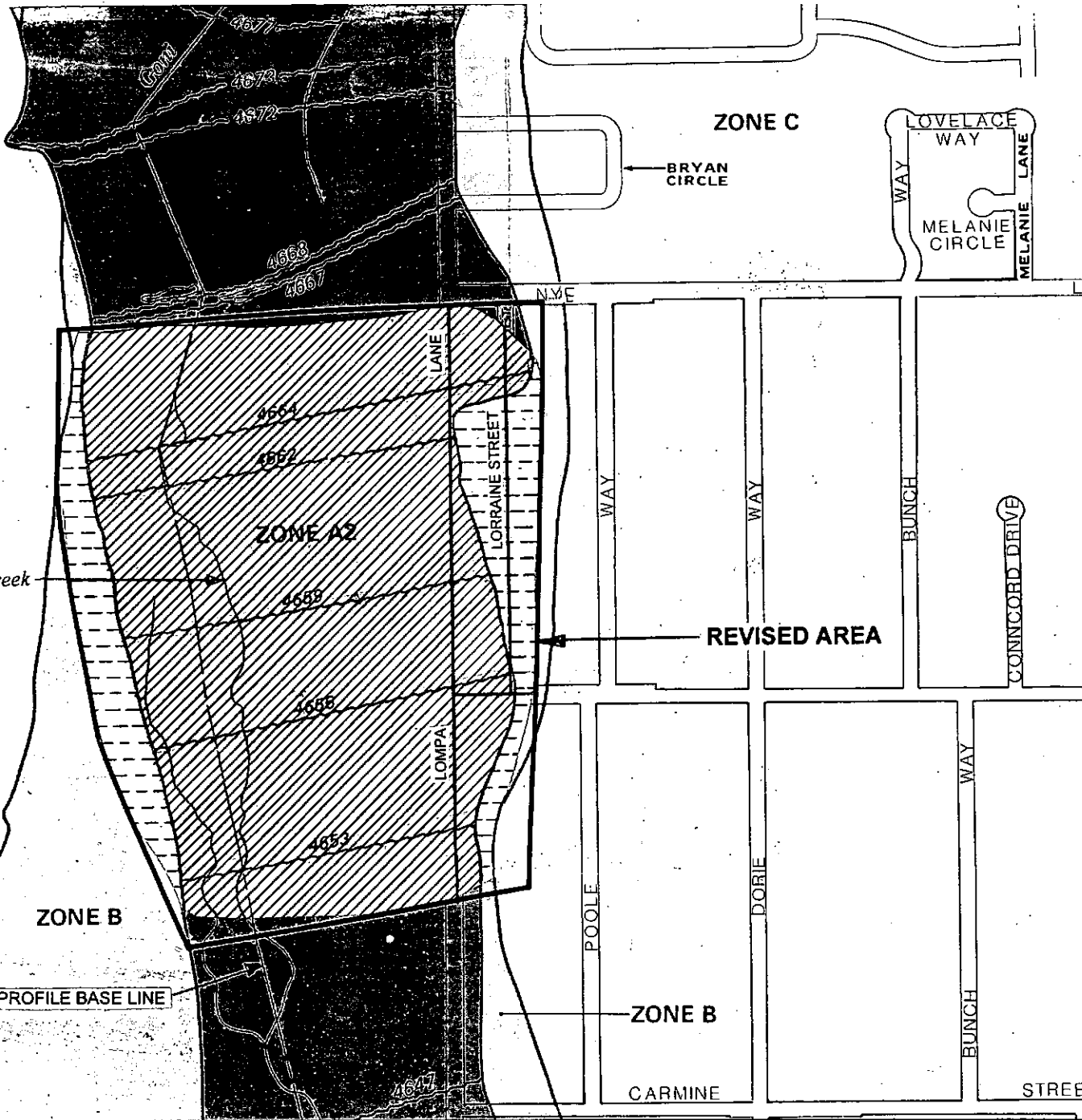
\*National Geodetic Vertical Datum, rounded to nearest whole foot

Under the above-mentioned Acts of 1968 and 1973, the Federal Insurance and Mitigation Administration must develop criteria for floodplain management. To participate in the National Flood Insurance Program (NFIP), the community must use the modified BFEs to administer the floodplain management measures of the NFIP. These modified BFEs will also be used to calculate the appropriate flood insurance premium rates for new buildings and their contents and for the second layer of insurance on existing buildings and contents.



Upon the second publication of notice of these changes in this newspaper, any person has 90 days in which he or she can request, through the Chief Executive Officer of the community, that the Federal Insurance and Mitigation Administration reconsider the determination. Any request for reconsideration must be based on knowledge of changed conditions or new scientific or technical data. All interested parties are on notice that until the 90-day period elapses, the Federal Insurance and Mitigation Administration's determination to modify the BFEs may itself be changed.

Any person having knowledge or wishing to comment on these changes should immediately notify:

The Honorable Ray Masayko  
Mayor, City of Carson City  
201 North Carson Street, Suite 2  
Carson City, NV 89701

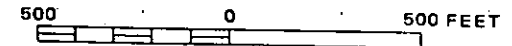


## MAP LEGEND

-  Revised 100-Year Floodplain
-  Revised 500-Year Floodplain



APPROXIMATE SCALE



NATIONAL FLOOD INSURANCE PROGRAM

## FIRM FLOOD INSURANCE RATE MAP

CITY OF  
CARSON CITY,  
NEVADA  
(INDEPENDENT CITY)

PANEL 40 OF 190  
(SEE MAP INDEX FOR PANELS NOT PRINTED)

**REVISED TO  
REFLECT LOMR  
DATED NOV 29 2001**

COMMUNITY-PANEL NUMBER  
320001 0040 B

EFFECTIVE DATE:  
MARCH 4, 1986



Federal Emergency Management Agency



Table 1. Summary of Discharges

Flooding Source and Location	Drainage Area (Square Miles)	Peak Discharges (cfs)			
		10-Year	50-Year	100-Year	500-Year
Carson River 3 Miles Upstream of Lloyds Bridge (USGS No. 10311000)	876	8,420	23,800	36,000	90,400
Clear Creek Approximately 1 Mile Upstream of U.S. Highway 395 (in Douglas County, Nevada)	16	190	1,200	2,450	11,300
Golf Course Creeks A and B At U.S. Highway 50	5	330	1,185	1,930	5,555
Kings Canyon Creek Near Canyon Drive	5	160	765	1,390	5,065
Goni Canyon Creek At Carson City Airport	6	150	780	1,465	5,730
At US Highway 50	1	1	1	2,776	1
Eagle Valley Creek Near the Intersection of U.S. Highway 395 and Graves Lane	1	75	280	470	1,410
Ash Canyon Creek Near Longview Way	6	220	950	1,660	5,550
Vicee Canyon Creek At Confluence With Ash Canyon Creek	2	45	250	475	1,950
Combs Canyon Creek At U.S. Highway 395	3	95	425	760	2,640
Voltaire Canyon Creek Near U.S. Highway 395	2	85	390	690	2,410

REVISED DATA

REVISED TO  
REFLECT LOMR  
DATED NOV 29 2001

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NGVD)			
Goni Canyon Creek		<b>REVISED DATA</b>						
A	1,710	783	1,175	3.2	4,631.8	4,630.6 <sup>2</sup>	4,630.8 <sup>2</sup>	0.2
B	2,500	911	889	4.2	4,635.4	4,633.9 <sup>2</sup>	4,634.0 <sup>2</sup>	0.1
C	3,285	843	2,419	1.5	4,638.1	4,638.1	4,638.6	0.5
D	5,325	863	487	5.7	4,652.6	4,652.6	4,652.8	0.2
E	6,680	800	535	4.8	4,662.4	4,662.4	4,663.1	0.7
F	6,745	451	390	6.7	4,664.1	4,664.1	4,665.1	1.0
G	7,220	560	509	5.1	4,666.5	4,666.5	4,666.6	0.1
H	7,300	678	520	5.0	4,668.0	4,668.0	4,668.3	0.3
I	7,860	831	761	4.3	4,671.9	4,671.9	4,672.0	0.1
J	7,930	961	624	5.2	4,673.2	4,673.2	4,673.5	0.3
K	9,135	840	320	5.0	4,684.0	4,684.0	4,684.4	0.4
L	9,170	840	1,170	1.4	4,684.4	4,684.4	4,685.0	0.6
M	10,250	599	311	5.1	4,692.4	4,692.4	4,692.4	0.0
N	12,050	550	377	3.9	4,715.3	4,715.3	4,715.3	0.0
O	12,085	550	330	4.4	4,718.5	4,718.5	4,718.5	0.0
P	13,145	1,376	976	1.5	4,732.2	4,732.2	4,732.2	0.0
Q	14,465	1,710	373	3.9	4,760.4	4,760.4	4,760.4	0.0

<sup>1</sup>Feet Above Downstream Limit of Detailed Study

<sup>2</sup>Elevations Computed Without Consideration of Influence from Kings Canyon Creek

T  
A  
B  
L  
E  
  
3

FEDERAL EMERGENCY MANAGEMENT AGENCY

**CITY OF CARSON CITY, NV  
(INDEPENDENT CITY)**

**FLOODWAY DATA**

**REVISED TO  
GONI CANYON CREEK  
REFLECT LOMR  
DATE NOV 29 2001**



